

What is claimed is

1. A shipping box assembly comprising
2 a top portion comprising four top-portion side walls and a top-portion top wall,
3 said top portion being shaped as a hollow open-ended rectangular
4 parallelepiped;
5 a bottom portion comprising four bottom-portion side walls and a bottom-portion
6 bottom wall, said bottom portion being shaped as a hollow open-ended
7 rectangular parallelepiped; and
8 releasable and reusable closure means for securing said top and bottom portions of
9 said box assembly together after said top portion is closely and completely
10 telescoped over said bottom portion;
11 wherein said top portion telescopes closely and completely over said bottom portion to
12 form the box assembly, said box assembly being shaped as a hollow rectangular
13 parallelepiped having four combination side walls, a top-portion top wall and a
14 bottom-portion bottom wall;
15 wherein each said combination side wall of said box assembly comprises a top-portion
16 side wall overlying a corresponding bottom portion side wall;
17 wherein at least two opposing combination side walls comprise corresponding hand-holds
18 extending through each said combination side wall;
19 wherein at least two opposing combination side walls comprise a corresponding security
20 port adjacent to each said hand-hold and extending through each said combination
21 side wall;
22 wherein each said top-portion side wall comprises at least first and second top-portion
23 side-wall corrugated layers secured together, corrugations in said first and second
24 top-portion side-wall corrugated layers being oriented at right angles;
25 wherein each said bottom-portion side wall comprises at least first and second bottom-
26 portion side-wall corrugated layers secured together, corrugations in said first and
27 second bottom-portion side-wall corrugated layers being oriented at right angles;

28 wherein said top-portion top wall comprises an outer corrugated layer overlying an inner
29 planar damped panel, said planar damped panel comprising first, second and third
30 layers, said first layer comprising open-cell foam, said third layer comprising
31 closed-cell foam, and said second layer comprising a semi-rigid energy
32 redistribution member secured at least peripherally between said first layer and
33 said third layer, said first layer being adjacent to said top-portion top wall outer
34 corrugated layer;
35 wherein said top-portion top-wall outer corrugated layer is continuous with each said top-
36 portion side wall first corrugated layer;
37 wherein said bottom-portion bottom wall comprises an outer corrugated layer overlying
38 an inner planar damped panel, said planar damped panel comprising first, second
39 and third layers, said first layer comprising open-cell foam, said third layer
40 comprising closed-cell foam, and said second layer comprising a semi-rigid
41 energy redistribution member secured at least peripherally between said first layer
42 and said third layer, said first layer being adjacent to said bottom-portion bottom
43 wall outer corrugated layer; and
44 wherein said bottom-portion bottom-wall outer corrugated layer is continuous with a
45 corrugated layer of each said bottom-portion side wall.

- 1 2. The shipping box assembly of claim 1 wherein said releasable and reusable
2 closure means comprise hook-and-eye material.
- 1 3. The shipping box assembly of claim 1 wherein each said planar damped panel
2 comprises a semi-rigid energy redistribution member consisting of a honeycomb sheet.
- 1 4. The shipping box assembly of claim 1 wherein each said planar damped panel
2 comprises a semi-rigid energy redistribution member consisting of a corrugated sheet.
- 1 5. The shipping box assembly of claim 1 wherein each said top-portion side wall
2 comprises at least first and second top-portion side-wall corrugated layers secured
3 together with a plurality of staples.

1 6. The shipping box assembly of claim 1 wherein each said bottom-portion side wall
2 comprises at least first and second bottom-portion side-wall corrugated layers secured
3 together with a plurality of staples.